

भारतीय मानक
बेलनाकार शैंक युक्त डोवीटेल कटर्स और
प्रतीव (इनवर्स) डोवीटेल कटर्स
(तीसरा पुनरीक्षण)

Indian Standard
INVERSE DOVETAIL CUTTERS AND DOVETAIL
CUTTERS WITH CYLINDRICAL SHANKS
(*Third Revision*)

ICS 25.100.20

© BIS 2013
BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard (Third Revision) was adopted by the Bureau of Indian Standards after the draft finalized by the Cutting Tools Sectional Committee had been approved by the Production and General Engineering Division Council.

This standard was originally published in 1971, subsequently revised in 1982 and 1995. This revision has been taken up to align with the international practices by taking assistance from ISO 3859 : 2000 'Inverse dovetail cutters and dovetail cutters with cylindrical shank'. This standard is technically equivalent to ISO 3859 : 2000. The change made in this standard in comparison to ISO 3859 : 2000 is that the titles of the figures are changed as 'dovetail cutters' for 'inverse dovetail cutters' and as 'inverse dovetail cutters' for 'dovetail cutters,' which seems to be typographical errors. Further, in place of ISO standards referred for dimensions, the corresponding Indian Standards have been substituted.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

INVERSE DOVETAIL CUTTERS AND DOVETAIL CUTTERS WITH CYLINDRICAL SHANKS

(*Third Revision*)

1 SCOPE

1.1 This standard specifies the dimensions of inverse dovetail cutters and dovetail cutters with plain cylindrical shanks, flatted cylindrical shanks and threaded shanks.

1.2 This standard applies to 45° and 60° dovetail cutters and inverse dovetail cutters with diameters of d_2 between 16 mm and 31.5 mm.

2 REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility

of applying the most recent editions of the standards indicated below.

<i>IS No.</i>	<i>Title</i>
8692	Cylindrical shanks for milling cutters:
(Part 1) : 2004	Dimensional characteristics of plain cylindrical shanks (<i>first revision</i>)
(Part 2) : 2004	Dimensional characteristics of flatted cylindrical shanks (<i>first revision</i>)
(Part 3) : 2007	Dimensional characteristics of threaded shanks

3 DIMENSIONS

Dimensions of plain cylindrical shanks, flatted cylindrical shanks and threaded shanks shall be in accordance with IS 8692 (Part 1), IS 8692 (Part 2) and IS 8692 (Part 3) respectively read with Fig. 1 and Table 1.

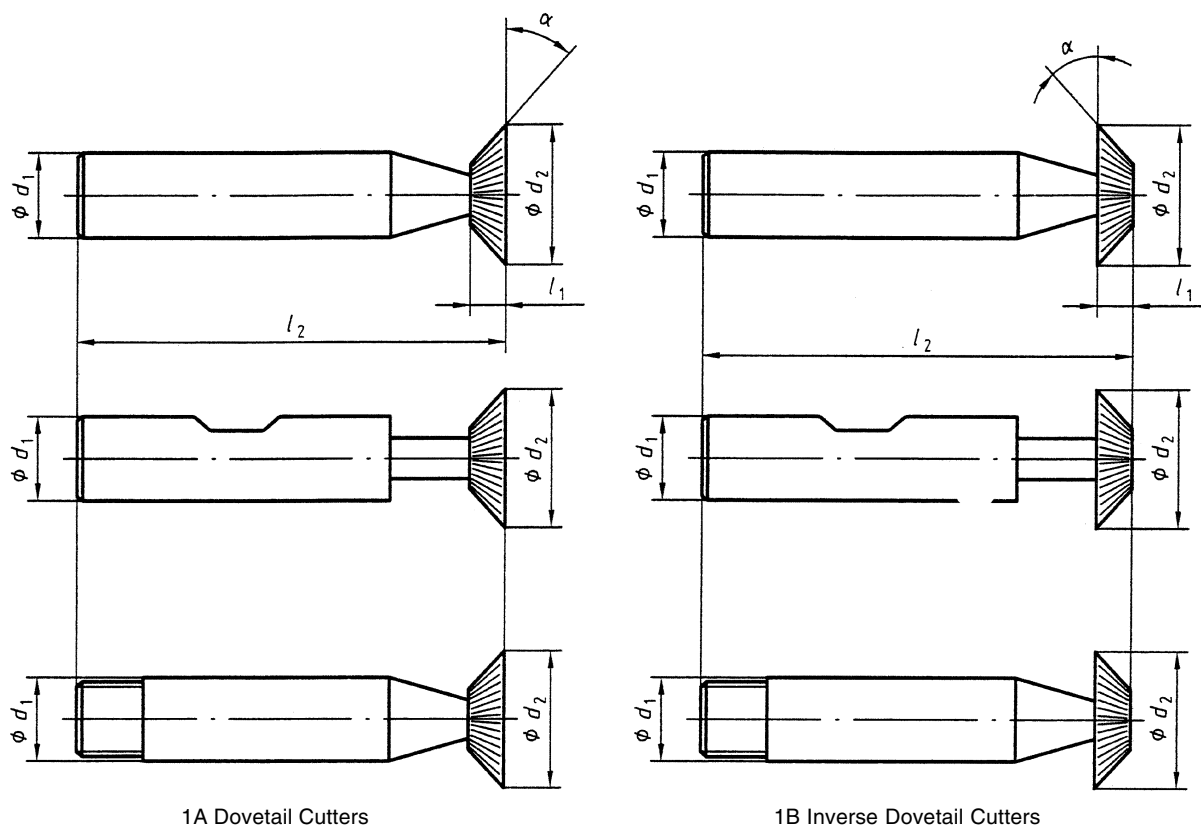


FIG.1 DOVETAIL CUTTERS AND INVERSE DOVETAIL CUTTERS

Table 1 Dimensions
(Clause 3)

d_2 js16	l_1	l_2	$d_1^{1)}$	α $\pm 30'$
16	4	60	12	45°
20	5	63		
25	6.3	67		
31.5	8	71	16	
16	6.3	60	12	60°
20	8	63		
25	10	67		
31.5	12.5	71	16	

¹⁾ Tolerance on d_1 [in accordance with IS 8692 (Part 1), IS 8692 (Part 2) and IS 8692 (Part 3)].
h8 for plain cylindrical shanks
h6 for flatted cylindrical shanks
h8 for threaded shanks

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act*, 1986 to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Catalogue' and 'Standards : Monthly Additions'.

This Indian Standard has been developed from Doc No.: PGD 32 (1063).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Telephones : 2323 0131, 2323 3375, 2323 9402

Website: www.bis.org.in

Regional Offices:

Telephones

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002

{ 2323 7617
2323 3841

Eastern : 1/14 C.I.T. Scheme VII M, V. I. P. Road, Kankurgachi
KOLKATA 700054

{ 2337 8499, 2337 8561
2337 8626, 2337 9120

Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160022

{ 260 3843
260 9285

Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600113

{ 2254 1216, 2254 1442
2254 2519, 2254 2315

Western : Manakalaya, E9 MIDC, Marol, Andheri (East)
MUMBAI 400093

{ 2832 9295, 2832 7858
2832 7891, 2832 7892

Branches: AHMEDABAD. BANGALORE. BHOPAL. BHUBANESHWAR. COIMBATORE. DEHRADUN. FARIDABAD. GHAZIABAD. GUWAHATI. HYDERABAD. JAIPUR. KANPUR. KOCHI. LUCKNOW. NAGPUR. PARWANOO. PATNA. PUNE. RAJKOT. VISAKHAPATNAM.